2012 Statewide Communications Interoperability Plan (SCIP) Revision

Presented to the Statewide Interoperability Executive Committee (SIEC)

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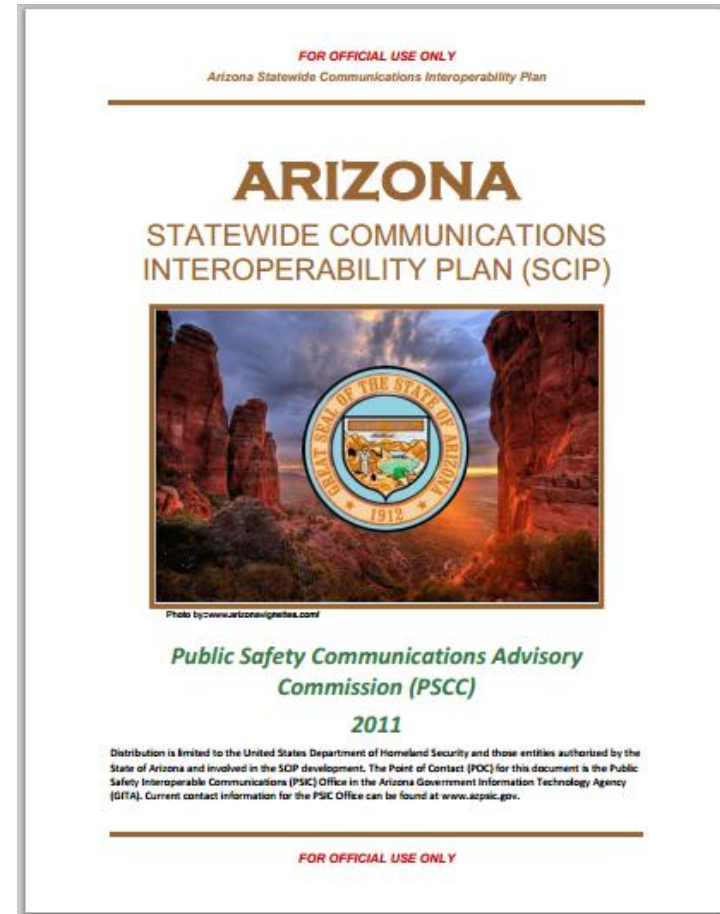Public Safety Interoperable Communications Office

Overview

- SCIP Background and Update

- Objectives for 2012 SCIP Revision

- Regional Shared Systems

- Review and Discussion of Existing SCIP Initiatives & Objectives

- Open Discussion

- 2012 SCIP Implementation Workshop

- 2012 SCIP Revision Timeline

- Discussion / Questions

Arizona SCIP Background

- AZ's first SCIP was drafted to meet a grant requirement in 2007

- Submitted to the Dept. of Homeland Security (DHS) Office of Emergency Communications (OEC) in November 2007 and Approved

- Revised annually; current SCIP significantly revised and approved on April 19, 2011

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Arizona Statewide Communications Interoperability Plan

ARIZONA
STATEWIDE COMMUNICATIONS
INTEROPERABILITY PLAN (SCIP)

Photo by: www.arizonavignettes.com

Public Safety Communications Advisory Commission (PSCC)

2011

Distribution is limited to the United States Department of Homeland Security and those entities authorized by the State of Arizona and involved in the SCIP development. The Point of Contact (POC) for this document is the Public Safety Interoperable Communications (PSIC) Office in the Arizona Government Information Technology Agency (GITA). Current contact information for the PSIC Office can be found at www.azpsic.gov.

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2012 SCIP Revision

- The annual review and update to the Statewide Communications Interoperability Plan (SCIP) will focus this year on validating and further developing action plans for implementation of key strategic initiatives.

- All existing content will also be reviewed for accuracy, currency, relevance and concise presentation.

- The PSIC Office, in conjunction with OEC, will be hosting a SCIP Implementation Workshop on May 22, 2012 in order to revise the Strategic Initiatives sections to be more streamlined and actionable with a focus on Broadband implementation and Arizona's System-of-Systems approach.

Broadband Implementation

- Revising Key Strategic Initiatives to Support Broadband Implementation:

  - *Strategic Initiative 1* - Expand and Implement Interoperable Communications Governance Model and Plan

  - *Strategic Initiative 6* - Implement, Enhance and Promote Functional Regional Systems in Support of Interoperable Communications

  - *Strategic Initiative 9* - Upgrade Operable Communication Systems for State Agencies in Support of Interoperable Communications

  - *Strategic Initiative 12* - Create and Implement an Education and Outreach Plan in Support of Interoperable Communications

System-of-Systems Approach

- Arizona's strategy for improving interoperable communications is to pursue a System-of-Systems approach to interoperable communications that leverages connections between separate local, regional, and/or state operated systems for public safety emergency response communications.

- SCIP Workshop will focus on reviewing AZ's System-of-Systems approach and developing action plans for key Strategic Initiatives :

  - _Strategic Initiative 2_: Develop Regional Communications Governance Structures

  - _Strategic Initiative 6_: Implement, Enhance and Promote Functional Regional Systems in Support of Interoperable Communications

REGIONAL SHARED SYSTEMS

Pima County Wireless Integrated Network (PCWIN)

Regional Wireless Cooperative (RWC)

Trunked Open Arizona (TOPAZ) Regional Wireless Cooperative (TRWC)

Yuma Regional Communications System (YRCS)

Arizona Emergency Operations Center Network

Pima County Wireless Integrated Network (PCWIN)

- Major Initiatives:
  - Voice radio systems (19 fire agencies and 10 police and emergency services agencies)
  - Emergency communications and operations center

- Major Milestones:
  - September 29, 2009 - executed contract with Motorola® to provide the voice radio system.
  - January 2010 - executed contract with NIC to provide microwave systems
  - June 2010 - executed contracts with three site development contractors
  - March 2012 – Microwave installations began
  - April 2012 – Eleven of twenty-seven tower sites constructed, eight under construction.
  - June 2012 – Motorola factory acceptance testing to be conducted.
  - March 2013 – Microwave and network installation and cutover complete.
  - January 2014 – Motorola installation complete.
  - 1st Quarter 2014 – User cutover

Regional Wireless Cooperative (RWC)

- Major Initiatives and Milestones:
  - Initial system design completed in 2000. Since then, considerable build out and expansion has occurred within the coverage area.

  - Several initiatives are currently underway to enhance coverage and capacity and promote interoperability:
    » Three new major sub-systems have been added to bring on new members
    » Capacity of several sub-systems has been upgraded to increase the ability to support interoperability and roaming throughout the network.
    » Six (6) additional ISRs are being added to the system and are being grouped with one of the existing ISRs to provide a network of overlay sites.
    » Several new sites have been added to existing sub-systems to provide additional coverage.
    » Other initiatives are in the planning stages to ensure that the network is upgraded to meet the federal re-banding and narrow-banding requirements.

Trunked Open Arizona (TOPAZ) Regional Wireless Cooperative (TRWC)

- A P25 digital trunk radio system servicing multiple jurisdictions:
  - TRWC consists of radio coverage Areas and associated Area Managers that administer the area operations, infrastructure, and assets through a structure that fosters collaborative planning amongst members.
  - Area Managers operate their zone as a separate sub-system on the overall network. Members within a particular zone have the ability to enhance, expand and/or increase the capacity of their zone as needed. The Area Managers are responsible for facilitating cost-recovery agreements between them and any other Member within their zone.

- Major Milestones:
  - November 2008 – First TRWC Board of Directors meeting, election of Chairman, Vice Chairman, and appointment of Executive Director
  - March 2009 – Adoption of Fiscal Year 09/10 Budget by the Board of Directors
  - September 2009 – Adoption of Network operation Policies and Procedures

Yuma Regional Communications System (YRCS)

- **Major Initiatives and Milestones:**
  - YRCS, DPS and ADOT partnership uses the upgraded digital microwave in Southern Arizona and the build-out of 700 MHz P25 coverage connected through the YRCS master site controller and system.
    - As a result of this partnership, 700/800 MHz P25 capable radios used by DPS joint operation task forces, ADOT and other properly equipped state agency personnel can interoperate between each other and with some local agencies.
  - RICO Project - YRCS, DPS and PSIC expanded on this partnership using $2.2M funded through the RICO Act.
    - 2011: five key transmitter sites along Arizona's southern border. One site installation remains.
    - The project increases 700 MHz digital coverage in the Southwest border region by approximately 6500 square miles.
    - The programming of talk groups and installation of control stations at ten PSAPs in the region and to the State Emergency Operations Center (EOC) will help tie local agencies to the State for interoperability purposes.

Arizona Emergency Operations Center Network

- ADEM partnered with Arizona Public Service (APS) in an effort to build the Arizona EOC Network utilizing APS's 800 MHZ statewide system.

  - ADEM has installed radios in 14 of the 15 county EOC's, the State EOC, the Alternate State EOC, and six (6) communications vehicles. ADEM also maintains a cache of eighty (80) portable radios.

  - The Arizona EOC Network 800 MHZ radios provide interoperability with Palo Verde Nuclear Generating Station, Arizona Radiation Regulatory Agency, and any other agency allowed to use the APS 800 MHZ network.

- Major Initiatives:

  - APS is now in process of building their business case for an upgrade of their 800MHz radio system to a P25 digital system.

  - ADEM is also working with adjoining states to provide interstate EOC communications via the APS 800 MHz network.

REVIEW AND DISCUSSION OF EXISTING SCIP INITIATIVES & OBJECTIVES

Strategy - Governance

- Initiative #1: Expand and Implement Interoperable Communications Governance Model and Plan
  - Conduct an annual review and update the SCIP as needed
  - Continue to develop the relationship between and among statewide governance entities and evolving regional and local governance entities

- Initiative #2: Develop Regional Communications Governance Structures
  - Develop TICPs and expand the utilization of CASM
  - Support tactical communications planning among federal, state, local, and tribal governments at the regional interstate level (NECP milestone)

- Initiative #3: Implement a Strategy for Supporting National Level Goals Applicable to Regional, State, Local and Tribal Interoperable Communications
  - Promote compliance with state, local and tribal objectives and milestones as listed in the NECP
  - Support assessment/demonstration of NECP goals at the state, local, and tribal level
  - Support implementation of FEMA and OEC initiatives
  - Promote compliance with evolving national public safety broadband standards and structures
  - Support narrowbanding in compliance with FCC mandates

Strategy - SOPs

- Initiative #4: Establish a PSP Framework, and Implement PSPs, Including SOPs, for Statewide Interoperable Communications Solutions

  - Develop a statewide interoperable communications PSP Framework

  - Develop consistent interoperable communications SOPs and SOP templates

  - Implement developed SOPs statewide

  - Implement technical solutions to comply with established statewide PSPs

  - Develop a statewide public safety broadband integration/implementation strategy and related standards

  - Promote the use of plain language and decrease dependence on the use of coded substitutions (NECP Milestone)

Strategy - Technology

- **Initiative #5: Enhance and Promote the AIRS Interoperable Communications Solution**
  - Provide enhanced AIRS coverage in areas requiring additional support
  - Develop and Implement a Next Generation AIRS Plan

- **Initiative #6: Implement, Enhance and Promote Functional Regional Systems in Support of Interoperable Communications**
  - Encourage partnerships in regional shared systems
  - Support the development of new regional shared systems
  - Provide enhancements to existing regional shared systems
  - Develop interoperability connections between regional shared systems
  - Develop regional strategic technology assets and other communications redundancies
  - Program national interoperability channels into emergency responder radios (NECP milestone)

- **Initiative #7: Upgrade the Statewide Microwave Backbone Infrastructure to Digital Technology**
  - Complete the Microwave Southern Loop Connectivity (2010 - Complete)
  - Complete the Microwave Southwestern Loop Connectivity (subject to funding availability)
  - Complete the Microwave Northwestern Loop Connectivity (subject to funding availability)
  - Complete the Microwave Northern Loop Connectivity (subject to funding availability)

Strategy – Technology, *cont.*

- Initiative #8: Implement the State STR
  - Pre-position and secure mobile interoperable communications assets for immediate deployment to impacted areas statewide in an emergency or major disaster
  - Provide redundant communications assets which can reconstitute basic public safety/service communications in the event of a catastrophic communication failure
  - Augment COG capabilities by providing a reserve of communications assets to government officials
  - Define alternate/backup capabilities in ECPs (NECP milestone)

- Initiative #9: Upgrade Operable Communication Systems for State Agencies in Support of Interoperable Communications
  - Develop a plan to provide State Agency Users with continued access to operable public safety/service LMR communications in support of statewide interoperability
  - Implement immediate solutions to enhance operable communication systems for State Agency Users in support of interoperable communications
  - Implement upgrades to operable communication systems for State Agency Users in support of interoperable communications

Strategy – Training & Exercise

- Initiative #10: Develop and Implement a Training Plan to Address Interoperable Communications
  - Develop regional multi-year communications-focused T&EPs
  - Develop a statewide multi-year communications-focused T&EP
  - Implement AIRS training statewide
  - Implement the COML Training and Recognition Program and develop Arizona based federally approved COML instructors
  - Implement a COMT Training Program and determine a credentialing protocol

- Initiative #11: Develop and Implement a Strategy for Exercises Focused on or Incorporating Interoperable Communications
  - Develop regional multi-year communications-focused T&EPs
  - Develop a statewide multi-year communications-focused T&EP
  - Conduct exercises focused on or incorporating interoperable communications

Strategy – Training & Exercise, *cont.*

- Initiative #12: Create and Implement an Education and Outreach Plan in Support of Interoperable Communications

  - Develop and implement a statewide Education and Outreach Plan in support of interoperable communications that describes the plan for encouraging collaboration and educating policy makers and practitioners

  - Provide outreach to all stakeholders regarding NECP requirements and timelines

  - Provide outreach to all stakeholders regarding interoperable communications channels

  - Provide outreach to all stakeholders regarding FCC narrowbanding requirements and timelines

2012 SCIP Revision Timeline

- February - March: Interviews with key State and local personnel & data gathering

- April - May: Open Public Comment Period

- April 17: Review and Discussion with PSCC

- May 8: Review and Discussion with SIEC

- May 22: SCIP Implementation Workshop – Strategic Planning

- June 4: Draft 2012 SCIP to PSCC, SIEC and public for review and comment [*Note: Comments due by June 21*]

- June 28: Approval Draft 2012 SCIP distributed to all stakeholders

- July 17: PSCC Action Item for Updated SCIP Approval

Further Discussion; Questions?

2012 SCIP Implementation Workshop

May 22nd, 2012

9 AM – 4 PM

Carnegie Center (main floor)

1101 W. Washington St.

Phoenix, AZ 85007

(602) 926-3604

http://www.lib.az.us/carnegie/meet.aspx

Thank You!

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